

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247386

Luminaire Tested: **LD8B80D010 ER8B80830 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80830 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8367.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

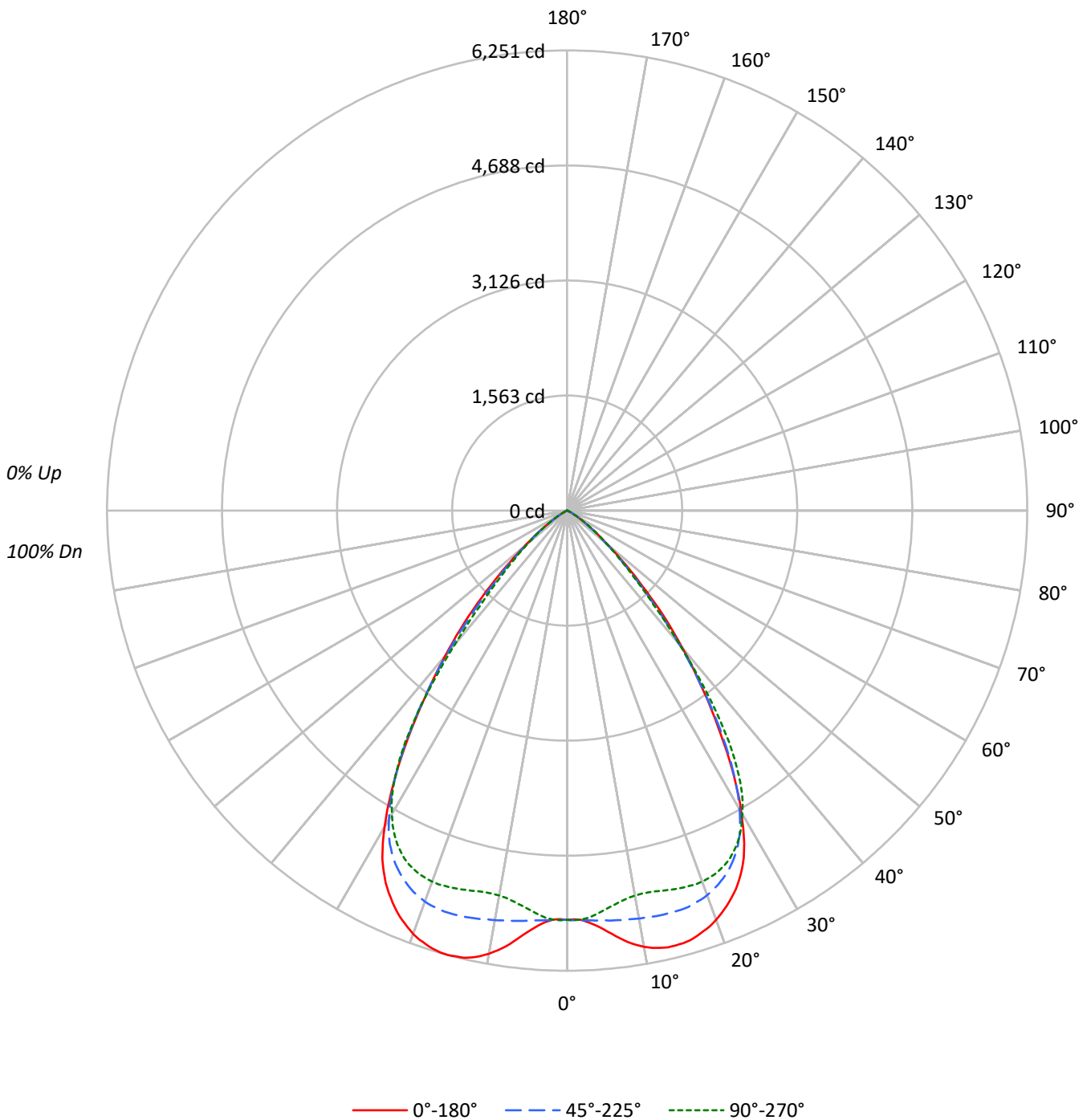
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |     |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |    |    |    |    | 92  |   |  |   |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 92  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |    |    |    |    | 84  |   |  |   |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 83  | 79  | 84  | 81  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 70  |    |    |    |    | 70  |   |  |   |
| 5   | 88  | 79  | 72  | 67  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |    |    |    |    | 64  |   |  |   |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 9   | 70  | 59  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 54  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 44  | 42  |    |    |    |    | 42  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 171496 | 171496 | 171496 |
| 5°  | 176760 | 169084 | 177054 |
| 10° | 188420 | 166229 | 191382 |
| 15° | 194220 | 170309 | 199570 |
| 20° | 194211 | 175995 | 200804 |
| 25° | 188262 | 177653 | 195016 |
| 30° | 168502 | 169509 | 176577 |
| 35° | 134209 | 144256 | 141678 |
| 40° | 98051  | 95390  | 103662 |
| 45° | 62640  | 55841  | 68104  |
| 50° | 33888  | 33207  | 36383  |
| 55° | 17397  | 18037  | 17397  |
| 60° | 7573   | 7573   | 5538   |
| 65° | 1554   | 2072   | 1722   |
| 70° | 1064   | 1488   | 1704   |
| 75° | 0      | 846    | 0      |
| 80° | 408    | 408    | 1669   |
| 85° | 0      | 814    | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 536.1  | 6.4       |
| 10°-20°   | 1612.9 | 19.3      |
| 20°-30°   | 2454.9 | 29.3      |
| 30°-40°   | 2284.5 | 27.3      |
| 40°-50°   | 1111.9 | 13.3      |
| 50°-60°   | 316.8  | 3.8       |
| 60°-70°   | 41.4   | 0.5       |
| 70°-80°   | 6.5    | 0.1       |
| 80°-90°   | 2.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 4603.8 | 55.0      |
| 0°-40°    | 6888.3 | 82.3      |
| 0°-60°    | 8317.1 | 99.4      |
| 0°-90°    | 8367.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8367.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5562 | 5562 | 5562 | 5562 | 5562 |      |
| 5°  | 5710 | 5585 | 5462 | 5590 | 5720 | 556  |
| 15° | 6084 | 5642 | 5335 | 5696 | 6251 | 1712 |
| 25° | 5533 | 5292 | 5221 | 5408 | 5732 | 2512 |
| 35° | 3565 | 3615 | 3832 | 3792 | 3764 | 2217 |
| 45° | 1436 | 1330 | 1280 | 1434 | 1562 | 1135 |
| 55° | 324  | 324  | 336  | 328  | 324  | 317  |
| 65° | 21   | 26   | 28   | 26   | 24   | 41   |
| 75° | 0    | 2    | 7    | 2    | 0    | 4    |
| 85° | 0    | 2    | 2    | 5    | 0    | 1    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P247386

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBW0WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5561.5 | 5561.5 | 5561.5 | 5561.5 | 5561.5 | 5561.5 | 5561.5 | 5561.5 | 5561.5 |
| 1°    | 5554.4 | 5561.5 | 5566.3 | 5564.0 | 5566.3 | 5564.0 | 5559.2 | 5549.8 | 5549.8 |
| 2°    | 5564.0 | 5573.4 | 5571.0 | 5566.3 | 5559.2 | 5559.2 | 5573.4 | 5554.4 | 5559.2 |
| 3°    | 5601.7 | 5601.7 | 5573.4 | 5547.4 | 5537.9 | 5547.4 | 5571.0 | 5585.2 | 5597.0 |
| 4°    | 5649.0 | 5639.5 | 5582.8 | 5523.8 | 5504.9 | 5528.5 | 5580.5 | 5625.3 | 5649.0 |
| 5°    | 5710.4 | 5682.0 | 5585.2 | 5495.4 | 5462.4 | 5497.8 | 5589.9 | 5674.9 | 5719.9 |
| 6°    | 5781.3 | 5738.7 | 5599.4 | 5464.7 | 5422.2 | 5471.8 | 5604.1 | 5734.1 | 5802.5 |
| 7°    | 5852.2 | 5783.7 | 5606.5 | 5441.1 | 5386.7 | 5455.3 | 5615.9 | 5800.2 | 5889.9 |
| 8°    | 5918.3 | 5826.2 | 5613.6 | 5419.9 | 5353.6 | 5424.5 | 5625.3 | 5859.2 | 5977.4 |
| 9°    | 5972.7 | 5866.3 | 5618.2 | 5403.3 | 5325.3 | 5405.7 | 5637.2 | 5911.2 | 6050.6 |
| 10°   | 6017.5 | 5897.0 | 5627.8 | 5393.8 | 5308.8 | 5396.2 | 5649.0 | 5956.2 | 6112.1 |
| 11°   | 6053.0 | 5918.3 | 5630.1 | 5389.1 | 5301.7 | 5389.1 | 5658.4 | 6001.0 | 6164.1 |
| 12°   | 6074.2 | 5937.2 | 5637.2 | 5391.5 | 5304.0 | 5396.2 | 5672.6 | 6020.0 | 6206.6 |
| 13°   | 6088.4 | 5944.3 | 5641.9 | 5398.6 | 5308.8 | 5400.9 | 5682.0 | 6036.5 | 6234.9 |
| 14°   | 6088.4 | 5939.6 | 5641.9 | 5405.7 | 5323.0 | 5410.3 | 5689.1 | 6048.3 | 6242.0 |
| 15°   | 6083.8 | 5937.2 | 5641.9 | 5417.4 | 5334.8 | 5419.9 | 5696.2 | 6055.4 | 6251.4 |
| 16°   | 6069.6 | 5923.0 | 5639.5 | 5424.5 | 5346.5 | 5429.3 | 5698.6 | 6050.6 | 6244.4 |
| 17°   | 6041.2 | 5916.0 | 5630.1 | 5431.6 | 5358.4 | 5438.7 | 5698.6 | 6038.8 | 6227.8 |
| 18°   | 6003.3 | 5866.3 | 5606.5 | 5424.5 | 5360.7 | 5436.4 | 5684.5 | 6008.1 | 6197.2 |
| 19°   | 5970.3 | 5838.0 | 5589.9 | 5419.9 | 5370.2 | 5443.5 | 5674.9 | 5986.8 | 6164.1 |
| 20°   | 5918.3 | 5790.8 | 5561.5 | 5405.7 | 5363.2 | 5429.3 | 5651.4 | 5949.1 | 6119.2 |
| 21°   | 5854.5 | 5736.4 | 5521.4 | 5382.0 | 5351.3 | 5410.3 | 5618.2 | 5897.0 | 6057.7 |
| 22°   | 5790.8 | 5674.9 | 5478.9 | 5358.4 | 5332.4 | 5393.8 | 5582.8 | 5842.7 | 5993.9 |
| 23°   | 5715.1 | 5606.5 | 5424.5 | 5318.2 | 5304.0 | 5356.1 | 5533.2 | 5783.7 | 5918.3 |
| 24°   | 5630.1 | 5526.1 | 5365.5 | 5273.3 | 5268.6 | 5315.9 | 5476.6 | 5705.7 | 5828.6 |
| 25°   | 5533.2 | 5441.1 | 5292.3 | 5216.6 | 5221.4 | 5261.5 | 5408.0 | 5618.2 | 5731.7 |
| 26°   | 5417.4 | 5332.4 | 5207.2 | 5148.1 | 5155.2 | 5195.4 | 5330.0 | 5516.7 | 5625.3 |
| 27°   | 5287.5 | 5209.5 | 5108.0 | 5065.4 | 5084.4 | 5119.8 | 5235.6 | 5405.7 | 5493.1 |
| 28°   | 5124.5 | 5063.1 | 4989.8 | 4971.0 | 4994.6 | 5034.8 | 5131.6 | 5271.0 | 5349.0 |
| 29°   | 4935.5 | 4902.4 | 4845.7 | 4855.1 | 4888.2 | 4921.3 | 5001.6 | 5103.2 | 5164.7 |
| 30°   | 4732.3 | 4718.1 | 4685.1 | 4722.9 | 4760.6 | 4789.0 | 4843.4 | 4911.8 | 4959.1 |
| 31°   | 4524.4 | 4507.9 | 4512.5 | 4574.0 | 4630.7 | 4649.6 | 4680.3 | 4713.4 | 4748.9 |
| 32°   | 4290.5 | 4285.8 | 4304.6 | 4394.5 | 4467.7 | 4477.1 | 4479.5 | 4488.9 | 4507.9 |
| 33°   | 4051.9 | 4044.8 | 4082.6 | 4193.7 | 4276.3 | 4283.4 | 4264.5 | 4255.0 | 4269.2 |
| 34°   | 3803.8 | 3803.8 | 3853.4 | 3969.2 | 4066.1 | 4073.1 | 4035.4 | 4030.6 | 4016.4 |
| 35°   | 3565.2 | 3558.1 | 3614.8 | 3723.5 | 3832.1 | 3834.5 | 3791.9 | 3766.0 | 3763.6 |
| 37.5° | 2974.5 | 2962.7 | 2981.6 | 3038.3 | 3118.6 | 3161.2 | 3156.4 | 3147.0 | 3139.9 |
| 40°   | 2435.8 | 2407.5 | 2369.7 | 2346.1 | 2369.7 | 2457.1 | 2532.7 | 2568.2 | 2575.2 |
| 42.5° | 1927.9 | 1887.8 | 1807.4 | 1741.2 | 1750.7 | 1831.1 | 1946.8 | 2027.1 | 2067.3 |
| 45°   | 1436.4 | 1396.3 | 1330.1 | 1280.5 | 1280.5 | 1337.2 | 1434.1 | 1516.8 | 1561.7 |
| 47.5° | 1025.4 | 999.4  | 961.6  | 940.3  | 954.5  | 978.1  | 1032.5 | 1093.9 | 1112.8 |
| 50°   | 706.4  | 699.3  | 678.1  | 678.1  | 692.2  | 711.2  | 720.6  | 751.3  | 758.4  |
| 52.5° | 493.8  | 482.0  | 484.3  | 486.7  | 498.5  | 500.9  | 515.0  | 507.9  | 519.8  |
| 55°   | 323.6  | 323.6  | 323.6  | 330.7  | 335.5  | 335.5  | 328.4  | 323.6  | 323.6  |
| 57.5° | 205.6  | 200.8  | 203.1  | 207.9  | 207.9  | 200.8  | 189.0  | 186.6  | 174.8  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|------|
| 60°   | 122.8 | 122.8 | 125.3 | 125.3 | 122.8 | 115.7  | 104.0 | 94.5   | 89.8 |
| 62.5° | 63.8  | 66.1  | 66.1  | 78.0  | 66.1  | 59.0   | 54.4  | 42.5   | 40.2 |
| 65°   | 21.3  | 26.0  | 26.0  | 26.0  | 28.4  | 26.0   | 26.0  | 23.6   | 23.6 |
| 67.5° | 14.2  | 16.5  | 16.5  | 18.9  | 18.9  | 18.9   | 18.9  | 23.6   | 16.5 |
| 70°   | 11.8  | 11.8  | 14.2  | 16.5  | 16.5  | 18.9   | 14.2  | 11.8   | 18.9 |
| 72.5° | 7.1   | 9.4   | 7.1   | 11.8  | 9.4   | 9.4    | 9.4   | 9.4    | 9.4  |
| 75°   | 0.0   | 4.8   | 2.3   | 0.0   | 7.1   | 4.8    | 2.3   | 4.8    | 0.0  |
| 77.5° | 2.3   | 2.3   | 2.3   | 2.3   | 4.8   | 4.8    | 4.8   | 4.8    | 2.3  |
| 80°   | 2.3   | 2.3   | 4.8   | 2.3   | 2.3   | 4.8    | 0.0   | 0.0    | 9.4  |
| 82.5° | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3    | 0.0   | 2.3    | 2.3  |
| 85°   | 0.0   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3    | 4.8   | 4.8    | 0.0  |
| 87.5° | 0.0   | 2.3   | 0.0   | 2.3   | 0.0   | 0.0    | 0.0   | 4.8    | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0  |

(END OF REPORT)